CERTIFICATE OF MAILING

I hereby certify that this PRELIMINARY AMENDMENT is being deposited with the U.S. Postal Service, with sufficient postage, as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231, on this 3 day of May, 1999.



Typed or Printed name of person signing this certificate:

Wendy A. Arthurs

GROUP 1700

Signed: Windy a

PATENT

IN THE UNITED STATES PATENTAND TRADEMARK OFFICE

In re Application of)	Examiner: Not yet assigned	
Jech, et al.)		
Serial No.: 09/148,126)	Art Unit: 1722	
Filed: September 4, 1998)		
For: FUNCTIONALLY GRADED METAL SUBSTRATES AND PROCESS FOR MAKING SAME)	Attorney Docket No.:	20721/04010
MAKING SAME	,		

Assistant Commissioner for Patents Washington, D.C. 20231

PRELIMINARY AMENDMENT

Dear Sir or Madam:

Please amend the above-identified application as follows:

IN THE SPECIFICATION:

Page 4, line 1, after "features." insert the following new paragraph:

applications a heat generating chip is attached directly to the functional insert which is surrounded by the surrounding body. The functional insert preferably has a thermal conductivity that is greater than the thermal conductivity of the surrounding body. The functional insert conducts heat away from the chip to the environment or to a heat sink. Although the CTE of the functional insert is higher than the CTE of the surrounding body, the otherwise detrimental

